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Document Formatting Systems: Survey, Concepts, and Issues

Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(5.36 MB)

Additional Information: full citation, references, citings, index terms

Human-computer interface development: concepts and systems for its management





H. Rex Hartson, Deborah Hix

March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(7.97 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. Dialogue independence is th ...

Special issue: Al in engineering



D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB)

Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

Tools and approaches for developing data-intensive Web applications: a survey



Piero Fraternali

September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(524.80 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

⁶ Query processing in a multimedia document system

Elisa Bertino, Fausto Rabbiti, Simon Gibbs

January 1988 ACM Transactions on Information Systems (TOIS), Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(2.94 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

7 High performance Fortran language specification

CORPORATE Rice University

December 1993 ACM SIGPLAN Fortran Forum, Volume 12 Issue 4

Publisher: ACM Press

Full text available: pdf(5.69 MB) Additional Information: full citation, abstract, citings, index terms

(PART I)Fortran Forum is reprinting this High Performance Fortran Language Specification over several issues. The current issue is devoted to the first four chapters of the HPFF Language Specification. Remaining chapters of the HPFF Language Specification, and the HPFF Journal of Development, will be printed in installments in filture issues of Fortran Forum.

8 IS '97: model curriculum and guidelines for undergraduate degree programs in

information systems
Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E.
Longenecker

December 1996 ACM SIGMIS Database, Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems, Volume 28 Issue 1

Publisher: ACM Press, ACM Press

Full text available: pdf(7.24 MB) Additional Information: full citation, citings

9 Pushing reuse in hypermedia design: golden rules, design patterns and constructive



<u>templates</u>

Marc Nanard, Jocelyne Nanard, Paul Kahn

May 1998 Proceedings of the ninth ACM conference on Hypertext and hypermedia: links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems

Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, references, citings, index terms

10 Toward a logical/physical theory of spreadsheet modeling



Tomás Isakowitz, Shimon Schocken, Henry C. Lucas

January 1995 ACM Transactions on Information Systems (TOIS), Volume 13 Issue 1

Publisher: ACM Press

Full text available: pdf(2.76 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

In spite of the increasing sophistication and power of commercial spreadsheet packages, we still lack a formal theory or a methodology to support the construction and maintenance of spreadsheet models. Using a dual logical/physical perspective, we identify four principal components that characterize any spread sheet model: schema, data, editorial, and binding. We present a factoring algorithm for identifying and extracting these components ...

Keywords: model management

11 Introduction to the Visual Simulation Environment



Osman Balci, Anders I. Bertelrud, Chuck M. Esterbrook, Richard E. Nance December 1997 Proceedings of the 29th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(1.61 MB) Additional Information: full citation, references, citings, index terms

12 Toward a unified framework for version modeling in engineering databases



Randy H. Katz

December 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(3.14 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Support for unusual applications such as computer-aided design data has been of increasing interest to database system architects. In this survey, we concentrate on one aspect of such support, namely, version modeling. By this, we mean the concepts suitable for structuring a database of complex engineering artifacts that evolve across multiple representations and over time and the operations through which such artifact descriptions are created and modified. There have been ...

13 Reuse of algorithms: still a challenge to object-oriented programming



Karsten Weihe

October 1997 ACM SIGPLAN Notices, Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications, Volume 32 Issue 10

Publisher: ACM Press, ACM Press

Full text available: pdf(2.32 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper is about reusable, efficient implementations of complex algorithms and their integration into software packages. It seems that this problem is not yetwell understood, and that it is not at all clear how object-oriented and other approaches may contribute to a solution. We analyze the problem and try to reduce it to a few key design goals. Moreover, we discuss various existing approaches in light of these goals, and we briefly report experiences with experimental case studies, in which ...

14 Pen computing: a technology overview and a vision



André Meyer

July 1995 ACM SIGCHI Bulletin, Volume 27 Issue 3

Publisher: ACM Press

Full text available: Patrick. Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

15 Conceptual documents: a mechanism for specifying active views in hypertext J. Nanard, M. Nanard, H. Richy



January 2000 Proceedings of the ACM conference on Document processing systems

Publisher: ACM Press

Full text available: pdf(578.36 KB) Additional Information: full citation, references, citings, index terms

16 Special issue on knowledge representation



Ronald J. Brachman, Brian C. Smith

February 1980 ACM SIGART Bulletin, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

17 Active documentation: a new interface for VLSI design





Mário J. Silva, Randy H. Katz

July 1993 Proceedings of the 30th international conference on Design automation

Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: full citation, references, citings, index terms

18 A structural view of the Cedar programming environment



Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann August 1986 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 8 Issue 4

Publisher: ACM Press

Full text available: 7 pdf(6.32 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

19 An integrated system for creating and presenting complex computer-based



documents

Steven Feiner, Sandor Nagy, Andries Van Dam

August 1981 ACM SIGGRAPH Computer Graphics, Proceedings of the 8th annual conference on Computer graphics and interactive techniques, Volume 15 Issue 3

Publisher: ACM Press, ACM Press

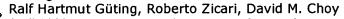
Full text available: pdf(1.23 MB)

Additional Information: full citation, abstract, references, citings, index terms

An experimental system is described for the design, development, and presentation of computer-based documents that combine pictures and text on a high-resolution raster color display. Such documents can be used, for example, for maintenance and repair tasks or computer-aided instruction. Documents are directed graphs whose nodes we refer to as pages, in analogy to the pages of a paper book. A page includes a set of simultaneously displayed pictur ...

Keywords: Computer aided instruction, Computer graphics, Interactive graphics, Maintenance and repair, Raster graphics

20 An algebra for structured office documents



April 1989 ACM Transactions on Information Systems (TOIS), Volume 7 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.57 MB) terms, review

We describe a data model for structured office information objects, which we generically call "documents," and a practically useful algebraic language for the retrieval and manipulation of such objects. Documents are viewed as hierarchical structures; their layout (presentation) aspect is to be treated separately. The syntax and semantics of the language are defined precisely in terms of the formal model, an extended relational algebra. The proposed approach has sever ...

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